

SCIENCE AND PRACTICE OF ALL SURFACE COATING PROCESSES

Official Organ of the
INSTITUTE OF VITREOUS ENAMELLERS

Head Office: JOHN ADAM HOUSE, 17-19 JOHN ADAM STREET, ADELPHI, LONDON, W.C.2

JANUARY TO DECEMBER, 1966

	PAGE		PAGE
Airless Spray Painting, Heating and Ventilating for Aluminium, The Control of Dye baths Used in the Dyeing of Anodized	402	Coatings, The Mechanism of Protection by Organic Coating Technology, Some Aspects of	437
Aluminium, The future of the Anodizing Process Related to	390	Coil-coating Finishes	459
Anodic Oxidation and New Processes in this Field, A Review of	183	Colour-coated Steel: Initial Range of Coating	14
Anodized Aluminium, The Control of Dye baths Used in the Dyeing of	104	Colour-coated Steel, The Case for	16
Anodizing, Architectural and Hard	390	Colour-coated Steel—The Production Process	5
Anodizing Facilities, Works Extension Doubles	424	Components and Accessories, Electro-phoretic Painting of Motor-car	429
Anodizing Process Related to Aluminium The Future of Architectural and Hard Anodizing	213	Controlled Cadmium Plating of Test Specimens Used in a Hydrogen-embrittlement Study	241
Automatic Plating Plant for Chromium Plating Electric Kettles	183		
	424	D esign for Electroplating	123
	245	Development of Tin Plating with Special Reference to Bright Tin Electrodeposition, The	
		Part 1	255
		Part 2	323
		Part 3	361
	225	Dye baths Used in the Dyeing of Anodized Aluminium, The Control of	390
B ook Review			
The Fundamentals of Corrosion		E arth-moving Equipment, Finishing	293
		Electric Kettles, Automatic Plating Plant for Chromium Plating	245
C admium Plating as a Production Process, The Development of	55	Electrodeposition for the Engineer, Heavy	
Cadmium Plating of Test Specimens Used in a Hydrogen-embrittlement Study, Controlled	241	Part 2	42
Case for Colour-coated Steel, The	16	Part 3	79
Chromium Plating Electric Kettles, Automatic Plating Plant for	245	Part 3 Cont.	116
Cinderford, Fabricator and Galvanizer Establishes New Works at	217	Part 4	207
Circuits, Through-hole Plating of Printed	311	" " Cont.	260
Coating Finishes, Coil	459	" " " "	295
Coatings and Linings for Metals Based on Rubbers and Plastics, Protective	284	" " " "	317
Coatings for Structural Steel, Paint	281	" " " "	347
Coatings (concluded), Methods and Equipment for Measuring the Thickness of	27	Concluded	404
		Electrodeposition, The Development of Tin Plating with Special Reference to Bright Tin	
		Part 1	255

	PAGE		PAGE
Part 2	323	L aboratory, Testing Paint in the	352
Part 3	361	Leaders :	
Electrophoretic Painting of Motor-car Components and Accessories	429	Coats of Many Colours	3
Electroplating, A New Research Department for	477	The Old Art Progresses	53
Electroplating, Design for	123	The Stage is Set	97
Electroplating, Programmed Control-Applied to Zinc and Cadmium	74	Woolton Pie is Off	143
Enamelling, Modern Trends in Vitreous	165	A Pattern to Follow	205
Enamels, Weather Resistance of Porcelain	366	As Time Goes By	239
Equipment, Finishing Earth-moving	293	Entity for Success	275
Exhibition, The Fourth International Industrial Finishes	193	A Bigger Combined Effort	309
		An End and a Beginning	345
		Another Step Forward	381
		As Pretty as Paint	417
		What A Year!	457
F abricator, and Galvanizer Establishes New Works at Cinderford	217	Lectures from the Oxford Symposium	
Field, A Review of Anodic Oxidation and New Processes in this	104	1 Commercial Prospects of Plating on A.B.S. Plastics	442
Finishes, Coil-coating	459	2 Theory and Practice Electroplating A.B.S. Plastics	465
Finishes Exhibition, The Fourth International Industrial	193	Linings Based on Rubbers and Plastics, Protective Coatings and	284
Finishing Earth-moving Equipment	293	London Airport, Ultrasonic Cleaning at	327
Finishing Metal, Polyurethane for	223		
Finishing News Review 87, 129, 226, 268, 303, 335, 367, 407, 444, and 479	383	M arine Paint Systems, Heavy-duty	277
Finishing of Electrical Precision Equipment, Varnish	145	Manumatic Tin and Tin/Zinc Plating	331
Finishing of Metals, Trends in the Organic	160	Mechanical, Polishing-Manual and	356
Finishing of Steel Strip, Recent Developments in the Finishing, Quality and Reliability Aspects in Metal	473	Mechanism of Protection by Organic Coatings, The Metal-cleaning Solutions, The Use of Gluconates in	99
		Metal Finishing, Quality and Reliability Aspects in Metal Pretreatment, Developments in	288
		Metal Pretreatment, Modern Methods of	175
		Metals, Trends in the Organic Finishing of	145
G alvanizer Establishes New Works at Cinderford Fabricator and	217	Methods and Equipment for Measuring the Thickness of Coatings (Concluded)	27
Galvanizing and Equipment for its Future, The Development of	169	Methods of Paint Application, Modern	314
German Motor-car Industry, Decorative Plating in the Part 1	419	Motor-car Components and Accessories, Electro-phoretic Painting of	429
Part 2	466	Motor-car Industry, Decorative Plating in the German Part 1	419
Gluconates in Metal-cleaning Solutions, The Use of	99	Part 2	466
H ard Anodizing, Architectural and	424	N ickel-chromium Plating, Decorative	
Heavy Electrodeposition for the Engineer		Part 2 of two-day symposium	61
Part 2	42	New Processes in this Field, A Review of Anodic Oxidation and	104
Part 3	79		
Part 3 Cont.	116		
Part 4	207	O rganic Coatings, The Mechanism of Protection by	437
33 Cont.	260	Organic Finishing of Metals, Trends in the	145
33 33	295	Oxford Symposium, Lectures from the	
33 33 33	317	1 Commercial Prospects of Plating on A.B.S. Plastics	442
33 33 33	347	2 Theory and Practice of Electroplating A.B.S. Plastics	465
Concluded	404		
Hydrogen-embrittlement Study, Controlled Cadmium Plating of Test Specimens Used in a	241		
I ndustrial Finishes Exhibition, The Fourth International	193	P aint Application, Modern Methods of	314
Industry, Decorative Plating in the German Motor-car Part 1	419	Paint Coatings for Structural Steel	281
Part 2	466	Painting, Heating and Ventilating for Airless Spray	402
Institute of Metal Finishing Annual Conference		Painting of Motor-car Components and Accessories, Electrophoretic	429
First Part	251	Paint in the Laboratory, Testing	352
Second Part	289	Paint Systems, Heavy-duty Marine	277
Third Part	396	Plant for Chromium Plating Electric Kettles, Automatic Plating	245
		Plant, Process and Equipment 91, 133, 231, 339, 375, 412, 449, 481	449
K ettles, Automatic Plating Plant for Chromium Plating Electric	245		

	PAGE		PAGE
Plater's Pantechnicon or How to Purchase Paraphernalia and Produce Perfect Plating	155	Solutions, The Use of Gluconates in Metal-cleaning ..	99
Plating, Plater's Pantechnicon or How to Purchase Paraphernalia and Produce Perfect	155	Some Aspects of Coating Technology	19
Plating as a Production Process, The Development of Cadmium	55	Spray Painting, Heating and Ventilating for Airless ..	402
Plating, Decorative Nickel-chromium	61	Steel, Colour-Coated : Initial Range of Coating ..	14
Plating in the German Motor-car Industry, Decorative Part 1	419	Steel, Colour-Coated—The Production Process	5
Part 2	466	Steel, Paint Coatings for Structural	281
Plating, Manumatic Tin and Tin/Zinc	331	Steel Strip, Recent Developments in the Finishing of Strip, Recent Developments in the Finishing of Steel ..	160
Plating of Printed Circuits, Through-hole	311		
Plating of Test Specimens, Used in a Hydrogen-embrittlement Study, Controlled Cadmium	241	T alking Points 4, 54, 98, 144, 206, 240, 276, 310, 346, 382, 418, and 458	
Plating Plant for Chromium Plating Electric Kettles, Automatic	245	Technology, Some Aspects of Coating	19
Plating with Special Reference to Bright Tin Electrodeposition, The Development of Tin	255	Thickness of Coatings (concluded), Methods and Equipment for Measuring the	27
Part 1	323	Tin and Tin/Zinc Plating, Manumatic	331
Part 2	361	Tin Plating with Special Reference to Bright Tin Electrodeposition, The Development of	255
Part 3	356	Part 1	323
Polishing-Manual and Mechanical	366	Part 2	361
Porcelain Enamels, Weather Resistance of	223	Part 3	
Polyurethane for Finishing Metal	383		
Precision Equipment, Varnish Finishing of Electrical Pretreatment, Developments in Metal	288		
Pretreatment, Modern Methods of Metal	175		
Production Process, The Development of Cadmium Plating as a	55	U ltrasonic Cleaning at London Airport	327
Protection by Organic Coatings, The Mechanism of ..	437	Use of Gluconates in Metal-cleaning Solutions, The ..	99
Q uality and Reliability Aspects in Metal Finishing ..	473		
		V arnish Finishing of Electrical Precision Equipment ..	383
R eliability Aspects in Metal Finishing, Quality and Research Department for Electroplating, A New ..	477	Vitreous Enamelling Congress, Fifth International ..	67
Review of Anodic Oxidation and New Processes in this Field, A	104	Vitreous Enamelling, Modern Trends in	165
Rubbers and Plastics, Protective Coatings and Linings Based on	284	Z inc and Cadmium Electroplating, Programmed Control Applied to	74

Index to Authors

JANUARY TO DECEMBER, 1966

	PAGE		PAGE
A lsop, J.	390	J ackson, D. J.	169
		J ames, D.	175
		J enkins, W. N., B.Sc., M.I.E.E.	160
		J enney, B. W., B.A. (Hons), C. Eng	473
B amford, T.	311		
B anfield, T. A., Ph.D., D.I.C., A.R.C.S., F.R.I.C.	277	K ape, J. M., B.Sc., M.Sc.(Tech.), A.R.I.C., A.I.M.	183 and 424
B race, A. W., B.Sc.(Econ.), C.G.I.A., A.I.M.	390	K atz, Dr. Walter	419 and 466
B rugger, B. Van der	383	K edward, E. C.	241
B osdorf, Dr. L.	104		
B ullett, T. R.	352		
		M ayne, J. E. O.	437
C ann, H.	55		
C halkley, Dr. B.	331	N ewton, D. S., A.R.I.C.	19 and 145
C laxton, A. E., B.Sc., A.R.C.S.	281		
		P latelayer	4, 54, 98, 144, 155, 206, 240, 276, 310, 346, 418 and 458
D ewar, J. P., A.C.T. (Birm), M.B.I.M.	356	P log, H.	27
		P ound, K. F.	165
E vans, V., M.Sc., F.R.I.C., A.P.I.	284		
		R oper, M. E.	255
F itzgerald Lee, G.	123	Part 1	323
F ry, E. S. J.	459	Part 2	361
		Part 3	361
G reenwood, J. D., A.M.S.E., M.Inst.B.E., M.I.W.M. 42, 79, 116, 207, 260, 295, 317, 347, 405		S axby, M. F.	314
		S cully, J. C.	225
		S ells, R., B.A.C.E., C.P.A.	223
		S haddock, A. W., B.Sc.	442
		S haw, R. E., B.Sc., F.I.M.	288
H eymann, K., Dr.—Ing	465	W arr, A. P.	16
H orner, D. C., B.Sc.(Tech.), A.R.I.C.	99	W illiams, E. L. C., A.M.I. Mech. E.	5

